



RECEIVED

SEP 25 2001

PATENT RIGHTS ASSIGNMENT

This Assignment is made and executed by Thiokol Propulsion Corp., a Delaware corporation with its principal place of business located at 9160 N. Highway 83, P.O. Box 707, Brigham City, Utah 84302-0707 (hereinafter "Assignor"), to and in favor of Alliant Techsystems Inc., a Delaware corporation having its principal place of business at 5050 Lincoln Drive, Edina, MN 55436 (hereinafter "Assignee").

203600 MAIL ROOM

Whereas Assignor previously received the entire right, title and interest in and to all patent applications listed in Attachment A attached hereto and patents listed in Attachment B attached hereto; and

Whereas Assignor desires to assign his entire right, title and interest in and to all patents and patent applications, to Assignee for valuable consideration; and

Whereas Assignee has provided such valuable consideration to Assignor;

RECEIVED

SEP 27 2001

Accordingly, the parties agree as follows:

1. Assignor hereby conveys and assigns to Assignee Assignor's entire right, title and interest in and to the Patents and Patent Applications and the inventions disclosed in them, including all continuation, continuation-in-part and divisional applications and all continuing prosecution applications based in whole or in part on the Patents and Patent Applications, and including all patents and reissues resulting from the Patent Applications.

TC 1700

2. Assignor hereby assigns to Assignee Assignor's entire right, title and interest in and to all counterparts to the Patents and Patent Applications that have been or may be filed outside the United States, whether pursued as a patent, an inventor's certificate, a utility model or the like, including all rights of priority based on the Patents and Patent Applications, further including all continuation, continuation-in-part and divisional applications and all continuing prosecution applications based in whole or in part on the non-U.S. counterparts, and still further including all patents, inventor's certificates, utility models and reissues based upon or resulting from any of the non-U.S. counterparts.

3. Assignor hereby grants to Assignee the sole and exclusive right to prosecute the Patents and Patent Applications and all related patents and applications as described in Paragraphs 1 and 2 above, as well as any opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings. Assignor authorizes all governmental bodies having the power to issue patents, reissues, inventor's certificates or utility models to issue a patent, reissue, inventor's certificate or utility model based on

1082-001

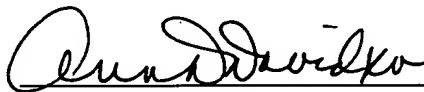
the Patents and Patent Applications or any related applications as described in Paragraphs 1 and 2 above in the name of Assignee.

4. Assignor agrees upon request and without further consideration, but at Assignee's expense: (a) to assist Assignee in prosecuting the Patents and Patent Applications and all related applications as described in Paragraphs 1 through 3 above, as well as opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings; (b) to provide Assignee with information concerning the Patents and Patent Applications to enable Assignee to obtain, secure and protect the rights granted under this Assignment; (c) to sign papers, take oaths and testify in legal proceedings to enable Assignee to obtain, secure and protect the rights granted under this Assignment; and (d) to perform all acts reasonably necessary to enable Assignee to obtain, secure and protect the rights granted under this Assignment.

5. Assignee may assign the rights under this Assignment in whole or in part. All references herein to Assignee include any successors or assigns of Assignee.

6. Assignor acknowledges that Assignee has provided valuable consideration for the rights granted under this Assignment.

September 7, 2001
Date


Ann D. Davidson
Assistant Secretary

On this 7th day of SEPTEMBER, 2001 Ann D. Davidson, who is known to me to be the person whose name is subscribed to the foregoing instrument, personally appeared and executed the foregoing instrument for the purposes therein contained.

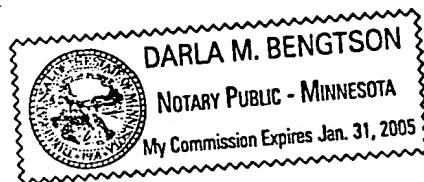
IN WITNESS WHEREOF, I have set my hand and official seal.

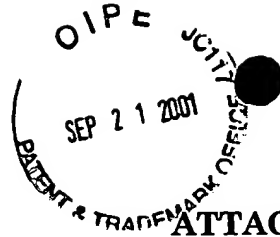


Notary Public

My Commission Expires:

01-31-2005





ATTACHMENT A (PATENT APPLICATIONS)

60/279,560
60/227,176
60/267,961
60/267,962
60/246,399
60/266,030
60/178,775
60/171,619
09/771,429
60/178,775
09/747,192
60/188,182
09/784,476
60/177,218
09/765,781
60/260,704
60/263,304
09/481,709
60/184,316
09/789,479
60/108,864
60/179,394
09/729,672
60/108,455
60/176,011
09/759,594
60/261,111
07/913,841
07/913,842
09/698,472
09/784,475
07/107,701
60/104,267
09/417,713
06/246,355
07/292,028
09/619,311
60/145,129
60/160,207
09/688,819

RECEIVED
SEP 27 2001
TC 1700

60/153,956
09/661,557
60/188,181
09/803,236
60/193,468
09/813,687
60/244,193
60/234,341
60/191,548
09/803,235
60/186,757
09/797,929
60/208,914
60/193,457
09/820,403
60/246,097
60/201,208
09/841,900
60/238,008
60/215,064
60/063,071
08/097,662
08/767,615
08/401,074
60/033,392
08/235,308
08/184,456
09/025,345
60/022,645
08/746,224
60/121,493
09/505,872
60/142,927
09/604,679
60/094,848
60/004,170
09/090,256
60/025,362
60/042,329
09/396,479
60/030,922

09/311,298
60/043,325
60/022,645
09/735,643
60/132,201
09/558,628
60/032,675
60/053,368
60/063,460
60/117,862
09/492,530
60/061,245
60/061,236
60/108,457
09/436,357
60/108,458
09/436,360
60/108,456
09/436,440
60/138,539
09/589,113
09/532,301
60/097,117
60/120,124
60/120,186
60/122,324
60/124,674
60/124,670
60/115,855
60/115,857
60/115,859
09/506,597
60/115,856
60/120,187
60/228,765
09/377,167
60/217,315
07/513,925
09/503,726
09/747,303

ATTACHMENT B (PATENTS)

4,377,679
4,394,458
4,397,948
4,399,238
4,403,045
4,435,023
4,506,815
4,507,188
4,527,389
4,530,855
4,561,377
4,599,945
4,601,862
4,662,893
4,663,196
4,708,758
4,736,684
4,764,319
4,766,726
4,793,866
4,798,142
4,806,613
4,817,377
4,819,426
4,821,510
4,840,024
4,856,276
4,866,930
4,867,393
4,901,642
4,919,737
4,925,936
4,929,291
4,930,541
4,938,824
4,952,644
4,956,971
4,959,110

4,961,699
4,970,857
4,971,640
4,976,794
4,988,797
4,999,997
5,007,236
5,011,721
5,017,356
5,020,731
5,021,270
5,024,160
5,028,283
5,031,539
5,032,016
5,035,363
5,039,368
5,044,154
5,056,435
5,060,470
5,061,409
5,062,206
5,062,365
5,070,691
5,071,495
5,071,506
5,074,938
5,076,868
5,098,277
5,099,042
5,113,650
5,120,827
5,127,223
5,145,543
5,150,654
5,154,782
5,162,494
5,166,468
5,174,845
5,180,452
5,197,677
5,206,989

5,214,831
5,228,285
5,230,287
5,232,526
5,236,512
5,240,523
5,259,901
5,264,596
5,266,290
5,273,785
5,277,318
5,279,492
5,280,706
5,289,723
5,292,387
5,309,617
5,311,820
5,322,002
5,327,834
5,334,270
5,336,343
5,341,638
5,346,512
5,347,931
5,348,603
5,352,312
5,356,499
5,359,416
5,359,850
5,363,768
5,366,572
5,367,872
5,368,662
5,369,955
5,372,070
5,372,664
5,377,593
5,380,777
5,382,265
5,386,776
5,386,781

5,391,025
5,394,757
5,398,612
5,398,887
5,399,309
5,399,599
5,400,713
5,401,340
5,406,082
5,411,615
5,414,123
5,419,501
5,427,452
5,428,165
5,429,691
5,431,101
5,435,128
5,439,537
5,441,303
5,449,835
5,451,682
5,452,210
5,456,455
5,460,093
5,460,669
5,467,714
5,468,313
5,468,680
5,468,866
5,470,408
5,472,532
5,472,534
5,472,647
5,472,679
5,487,851
5,498,303
5,498,649
5,498,711
5,500,059
5,501,823
5,507,090
5,507,231

5,511,745
5,511,914
5,516,377
5,516,854
5,520,768
5,522,320
5,523,517
5,529,649
5,531,163
5,531,845
5,536,990
5,538,680
5,540,794
5,541,413
5,545,278
5,547,525
5,554,820
5,564,272
5,565,150
5,565,645
5,577,630
5,579,634
5,579,635
5,587,552
5,587,553
5,591,936
5,592,812
5,593,770
5,600,946
5,610,364
5,613,358
5,615,983
5,616,884
5,639,984
5,644,000
5,645,219
5,648,556
5,654,522
5,660,884
5,661,257
5,670,098

5,673,935
5,675,966
5,682,014
5,723,604
5,725,699
5,731,540
5,735,114
5,735,118
5,739,325
5,741,998
5,747,603
5,755,401
5,759,458
5,762,746
5,763,027
5,763,818
5,767,221
5,771,679
5,792,981
5,798,480
5,801,325
5,834,680
5,844,165
5,859,384
5,874,574
5,912,430
5,942,720
5,955,629
5,970,703
5,972,304
5,984,369
5,985,361
5,996,502
6,039,820
6,051,087
6,054,521
6,059,045
6,072,055
6,084,106
6,084,106
6,086,692
6,086,693

6,088,925
6,094,906
6,095,367
6,096,147
6,100,375
6,107,483
6,123,789
6,136,115
6,147,209
6,170,399
6,171,530
6,186,356
6,190,475
6,209,312
6,214,137
6,217,682
6,217,799
6,220,779
6,224,099
6,226,979
6,235,359
6,241,281
6,272,954

Please type a plus sign (+) inside this box



SEP 21 2001

PTO/SB/81 (10-00)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	09/436,360
Filing Date	November 9, 1999
First Named Inventor	Sanderson
Group Art Unit	3641
Examiner Name	Miller, E.
Attorney Docket Number	1082-370

H14/A50
PIA
10/3/01

I hereby appoint:

☐ Practitioners at Customer Number

OR

☒ Practitioner(s) named below:

Place Customer
Number Bar Code
Label here

Name	Registration Number
Stephen T. Sullivan	32,444
David S. Taylor	39,045

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☒ Firm or
Individual Name Sullivan Law Group

Address 5060 North 40th Street

Address Suite 120

City Phoenix

State AZ

ZIP 85018

Country U.S.A.

Telephone 602 956 6161

Fax 602 956 6262

I am the:

☐ Applicant.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name Ann D. Davidson

Signature *Ann D. Davidson* Y.P. Allesat Techsystems Inc

Date 9/7/2001

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

SEP 25 2001

303600 MAIL ROOM

RECEIVED

SEP 27 2001

TC 1700